



Designation: **E2486—06 E2486/E2486M – 13**

Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)¹

This standard is issued under the fixed designation E2486/E2486M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This test method covers a procedure for rapidly deforming by impact an EIFS for evaluating the effect of such deformation.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as the standard. The values given in parentheses are for information only; stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D2794 Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation \(Impact\)](#)

[E631 Terminology of Building Constructions](#)

[E2110 Terminology for Exterior Insulation and Finish Systems \(EIFS\)](#)

3. Terminology

3.1 For definitions of general terms relating to EIFS, general terminology regarding EIFS and building in general, see Terminology E2110; (for EIFS terms) and Terminology E631 (for buildings in general).

4. Summary of Test Method

4.1 Specimens shall be subjected to rapid deformation by a falling standard weight. By gradually increasing the distance the weight drops, the point at which failure occurs can be determined.

4.2 The impact resistance classification shall be determined by the number of joules (~~inch-lb~~)[inch-lb] achieved when at least six out of ten tests do not display broken reinforcing mesh that is visible to the naked eye under normal lighting conditions.

5. Significance and Use

5.1 This specification determines levels of impact resistance under Classes PB and PI EIFS.

5.2 This test method does not purport to simulate impact encountered in service.

6. Apparatus

6.1 The apparatus shall be as specified in the Apparatus Section of Test Method [D2794](#) with the following exceptions:

6.1.1 The cylindrical weight shall be 1.82 kg (~~4.0 lb~~);[4.0 lb],

6.1.2 The EIFS specimen shall fit below the tube,

6.1.3 The diameter of the hemispherical head shall be 13 mm (~~1.2 in.~~)[1.2 in.] and it shall be made to fit inside the guide tube instead of resting on the test panel, and

¹ This test method is under the jurisdiction of ASTM Committee [E06](#) on Performance of Buildings and is the direct responsibility of Subcommittee [E06.58](#) on Exterior Insulation and ~~Finishing System~~Finish Systems (EIFS).

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.